

ABSTRACT

A compact-sized fingerprint imaging device includes an optical plate for creating a fingerprint pattern at a finger field on the optical plate. The fingerprint pattern is illuminated with light from an illuminating tool to create imaging light rays. A small thickness of the optical plate, and hence of the fingerprint imaging device, is possible due to a design that includes an array of microreflectors covering a part of the optical plate, the microreflectors being distributed along a base surface. The imaging light rays from the fingerprint pattern that are reflected by the array of microreflectors are received by an imaging lens that projects an image of the fingerprint pattern to an image sensor.

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